

## Claims

1. A rotating body (01) of a printing press, having a barrel (02) with a cylindrical surface (18) and an outer body (19), wherein the outside of the outer body (19) constitutes the shell face (07) of the barrel (02), wherein the outer body (19) is embodied in the form of at least one curved piece resting on the surface (18) of the base body (17) and, is connected with the surface (18) of the base body (17), characterized in that on its inside (24) the outer body (19) has at least one hollow space (21), which is open toward the surface (18) of the base body (17) and through which a temperature-regulation medium flows.
2. The rotating body (01) in accordance with claim 1, characterized in that the curved piece has a central angle ( $\alpha$ ) of less than  $360^\circ$ .
3. The rotating body (01) in accordance with claim 1, characterized in that several curved pieces, each of which has a hollow space (21), are arranged in the direction of the circumference (U) on the surface (18) of the base body (17), wherein the central angles ( $\alpha_i$ , with  $i$  the counting index for the curved pieces) belonging to the curved pieces complement each other to  $360^\circ$  at most.
4. The rotating body (01) in accordance with claim 2 or 3, characterized in that the curved piece, or each curved

piece, has several hollow spaces (21) which are open toward the surface (18) of the base body (17).

5. The rotating body (01) in accordance with claim 2 or 3, characterized in that a gap (20) in the shell face (07) of the barrel (02), which has been left by the curved piece, or is formed by two curved pieces adjoining each other in the direction of the circumference (U) of the base body (17), forms a slit-shaped opening to a clamping channel arranged in the base body (17), which holds a dressing on the shell face (07).

6. The rotating body (01) in accordance with claim 1, characterized in that in cross section the curved piece is shaped into a ring, which encloses the surface (18) of the base body (17).

7. A rotating body (01) of a printing press, having a barrel (02) with a cylindrical surface (18) and an outer body (19), wherein the outside of the outer body (19) constitutes the shell face (07) of the barrel (02), wherein the outer body (19) is embodied in the form of at least one curved piece resting on the surface (18) of the base body (17) and is connected with the surface (18) of the base body (17), wherein the curved piece has a central angle ( $\alpha$ ) of less than  $360^\circ$ , characterized in that at least one hollow space (21), which is open toward the base body (17) and is covered by the curved piece, is provided in the base body (17), and a gap (20) in the shell face (07) of the barrel (02), which has

been left by the curved piece, forms a slit-shaped opening to a clamping channel arranged in the base body (17), which holds a dressing on the shell face (07).

8. The rotating body (01) in accordance with claim 7, characterized in that a temperature-regulation medium flows through the hollow space 21.

9. The rotating body (01) in accordance with claim 7, characterized in that several hollow spaces (21), which are open toward the surface (18) of the base body (17), are provided in the base body (17).

10. The rotating body (01) in accordance with claim 7, characterized in that the outer body is embodied as a curved piece, which is concentric in respect to the base body (17).

11. The rotating body (01) in accordance with claim 7, characterized in that several curved pieces, each of which has a hollow space (21), are arranged in the direction of the circumference (U) on the surface (18) of the base body (17), wherein the central angles ( $\alpha_i$ , with i the counting index for the curved pieces) belonging to the curved pieces complement each other to 360° at most.

12. The rotating body (01) in accordance with claim 1 or 7, characterized in that the exterior of the outer body (19) is covered with a least one dressing.

13. The rotating body (01) in accordance with claim 1 or 7, characterized in that the outer body (19) is solidly embodied.

14. The rotating body (01) in accordance with claim 1 or 7, characterized in that the outer body (19) has an unchanging radial thickness.

15. The rotating body (01) in accordance with claim 1 or 7, characterized in that the outer body (19) is not embodied to be compressible.

16. The rotating body (01) in accordance with claim 1 or 7, characterized in that the outer body (19) is releasably connected with the surface (18) of the base body (17).

17. The rotating body (01) in accordance with claim 1 or 7, characterized in that the outer body (19) is permanently connected with the surface (18) of the base body (17).

18. The rotating body (01) in accordance with claim 1 or 7, characterized in that the outer body (19) is connected with the surface (18) of the base body (17) in a material-to-material or positively connected manner.

19. The rotating body (01) in accordance with claim 18, characterized in that at the faces (11) of the barrel (02) the outer body (19) is connected with the surface (18)

of the base body (17) in a material-to-material or positively connected manner.

20. The rotating body (01) in accordance with claim 1 or 7, characterized in that at least the base body (17) is forged.

21. The rotating body (01) in accordance with claim 1 or 7, characterized in that at least the outer body (19) is made of steel.

22. The rotating body (01) in accordance with claim 1 or 7, characterized in that the hollow space (21) is oriented axially in respect to the barrel (02).

23. The rotating body (01) in accordance with claim 1 or 7, characterized in that the hollow space (21) extends in a meander shape.

24. The rotating body (01) in accordance with claim 1 or 7, characterized in that the hollow space (21) is milled in.

25. The rotating body (01) in accordance with claim 1 or 7, characterized in that at least two hollow spaces (21) are arranged at equal distances from each other.

26. The rotating body (01) in accordance with claim 1 or 7, characterized in that the rotating body (01) is a

cylinder (01) conveying a material to be imprinted, or a roller (01) conveying a material to be imprinted.

27. The rotating body (01) in accordance with claim 1 or 7, characterized in that the rotating body (01) is embodied as a forme cylinder (01), as a transfer cylinder (01) or as a roller (01) in an inking system or a dampening system.

28. The rotating body (01) in accordance with claim 5 or 7, characterized in that the opening has a gap width (S) of less than 3 mm.

29. The rotating body (01) in accordance with claim 1 or 8, characterized in that the temperature-regulation medium is a fluid heat-conducting medium.